

Title (en)  
TYRE, THE CARCASS REINFORCEMENT OF WHICH IS REINFORCED BY A LAYER OF REINFORCING ELEMENTS IN THE BEAD REGION

Title (de)  
REIFEN MIT KARKASSENVERSTÄRKUNG MIT EINER VERSTÄRKUNGSELEMENTSCHICHT IM WULSTBEREICH

Title (fr)  
PNEUMATIQUE DONT L'ARMATURE DE CARCASSE EST RENFORCEE PAR UNE COUCHE D'ELEMENTS DE RENFORCEMENT DANS LA ZONE DU BOURRELET

Publication  
**EP 2655096 A1 20131030 (FR)**

Application  
**EP 11799697 A 20111220**

Priority  
• FR 1060883 A 20101221  
• EP 2011073410 W 20111220

Abstract (en)  
[origin: WO2012084948A1] The invention relates to a tyre with a radial carcass reinforcement consisting of at least one layer of reinforcing elements which is anchored in each of the beads by being wrapped around a bead wire, said wrapped-around portion of carcass reinforcement being reinforced with at least one layer of reinforcing elements or stiffener, the radially outer end of which is radially on the outside of the end of the wrapped-around portion. According to the invention, the reinforcing elements of at least one stiffener are unwrapped metal chords with saturated layers which on the test known as the permeability test return a flowrate less than 20 cm<sup>3</sup>/min and the distance between the radially outer end of the stiffener and the end of the wrapped-around portion of carcass reinforcement is less than 5 mm.

IPC 8 full level  
**B60C 15/06** (2006.01); **B60C 9/02** (2006.01); **D07B 1/06** (2006.01); **D07B 1/16** (2006.01)

CPC (source: EP US)  
**B60C 9/0007** (2013.01 - EP US); **B60C 9/02** (2013.01 - US); **B60C 15/0628** (2013.01 - EP US); **D07B 1/062** (2013.01 - EP US); **D07B 1/0633** (2013.01 - EP US); **B60C 2015/009** (2013.01 - EP US); **B60C 2015/0621** (2013.01 - EP US); **B60C 2015/065** (2013.01 - EP US); **B60C 2015/0685** (2013.01 - EP US); **B60C 2200/06** (2013.01 - EP US); **D07B 1/0626** (2013.01 - EP US); **D07B 2201/2046** (2013.01 - EP US); **D07B 2501/2046** (2013.01 - EP US)

Citation (search report)  
See references of WO 2012084948A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**FR 2969038 A1 20120622**; **FR 2969038 B1 20121228**; BR 112013014090 A2 20160920; CN 103260906 A 20130821; CN 103260906 B 20160928; EP 2655096 A1 20131030; EP 2655096 B1 20150225; JP 2014504980 A 20140227; RU 2013133828 A 20150127; US 2013292027 A1 20131107; WO 2012084948 A1 20120628

DOCDB simple family (application)  
**FR 1060883 A 20101221**; BR 112013014090 A 20111220; CN 201180061077 A 20111220; EP 11799697 A 20111220; EP 2011073410 W 20111220; JP 2013545305 A 20111220; RU 2013133828 A 20111220; US 201113992426 A 20111220